



Fish Passage Center

Weekly Report #04 - 25

August 27, 2004

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Highlights:

- Flows have averaged 33.3 Kcfs at Lower Granite over the summer flow period and the flow objective is 50 Kcfs.
- Flows have averaged 132.5 Kcfs at McNary over the summer season and the flow objective is 200Kcfs.

Summary of Events:

Water Supply: Columbia Basin precipitation throughout the first twenty-three days of August has generally been well above average in most basins. Over the entire water year, precipitation remains slightly below average in most basins.

Table 1. Summary of August precipitation and cumulative October through August precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.

Location	Water Year 2004		Water Year 2004 October 1, 2003 to August 23, 2004	
	August 1-23		Observed (inches)	%
	Observed (inches)	% Average		
Columbia Above Coulee	1.97	157	22.59	96
SNAKE RIVER ABOVE ICE HARBOR	1.12	176	16.20	97
Columbia Above The Dalles	1.45	165	21.42	98
Kootenai	2.15	172	22.92	95
Clark Fork	1.61	167	15.66	96
Flathead	1.95	163	20.43	94
Pend Oreille/Spokane	1.51	161	28.03	95
Central Washington	0.63	225	8.24	96
SNAKE RIVER PLAIN	0.51	118	9.14	86
Salmon/Boise/Payette	1.02	196	17.81	94
Clearwater	1.66	186	30.47	105
SW Washington Cascades/Cowlitz	2.72	238	61.22	90
Willamette Valley	1.72	217	54.07	94

The summer Flow Objective period started in the Lower Snake River on June 21st, 2004 and will end on August 31st, 2004. Flows have averaged 33.3 Kcfs over the summer flow period; the flow objective is 50 Kcfs. Flows at Lower Granite have averaged 27.0 Kcfs over the last week.

The summer flow period began at McNary on July 1st with a flow objective of 200 Kcfs. Flows have averaged 132.5 Kcfs at McNary over the summer season and 118.4 Kcfs last week.

Grand Coulee is currently at an elevation of 1279.7 feet and has actually refilled 1.3 feet over the past week. The August 31st draft limit at Grand Coulee is 1278 feet.

The Libby Reservoir has released a constant 12.5 Kcfs for the entire month of July and most of the month of August. Libby is currently at an elevation of 2444.4 feet (8-26-04). Projections have Libby drafting to an elevation of 2441.6 feet on August 31st, 2004, which is approximately 112 Kaf of storage above the BiOp draft limit of 2439 feet.

The Hungry Horse Reservoir has been drafting for summer flow augmentation and is currently at an elevation of 3543.6 feet. Outflows at Hungry Horse have been 5.2 Kcfs over the last week. Projections have Hungry Horse drafting to an elevation of 3540.9 feet on August 31st, 2004, which is approximately 21 Kaf of storage above the BiOp draft limit of 3540.0 feet.

The Dworshak Reservoir is currently at an elevation of 1539.3 feet and has been drafting for flow and temperature augmentation in the Lower Snake River. Outflows at Dworshak have ranged between 10.2 and 10.4 Kcfs over the last week with a temperature of approximately 46°F.

The Brownlee Reservoir is currently at an elevation of 2061.9 feet and has refilled 1.7 feet over the last week. Outflows to Brownlee have ranged between 6.2 and 11.5 Kcfs over the last week.

Spill: Spill at Dworshak ended on August 8, as augmentation flows were reduced to powerhouse capacity. There has been no spill at Lower Granite, Little Goose or Lower Monumental dams on the Snake River to facilitate the present policy of maximization of fall chinook juvenile transportation. Summer spill for fish passage is continuing at Ice Harbor Dam, with spill averaging 72% of daily average flow from August 20 through August 26. During the same time period, Biological Opinion summer spill continued at the Lower Columbia projects with spill averaging 30% of daily average flow at John Day dam, 38% at The Dalles Dam and 64% at Bonneville Dam. There is no summer spill program at McNary Dam as the present Biological Opinion focuses on the maximization of transportation of fall chinook juveniles.

The percentage of water spilled at Bonneville Dam remains increased this past week. This, however, does not represent an increase in spill volumes, but is necessary due to a discrepancy identified by the COE concerning the calibration of the spill gate openings. This incorrect calibration at Bonneville Lock and Dam caused less water to be released than reported. Because of this calibration error the daytime spill quantity reported at Bonneville Dam will continue to be approximately 85 kcfs, while the actual spill quantity is about 75 kcfs. This discrepancy in actual and reported spill quantities will continue until a plan for calibration is prepared by the COE.

Gas bubble trauma monitoring is continuing at Rock Island, and at McNary and Bonneville dams. No fish were observed with signs of gas bubble trauma over the past week.

Smolt Monitoring: Subyearling chinook indices increased at all sites in the Snake River while numbers continued to decrease at most Mid and Lower Columbia sites over the past week. At Bonneville Dam the indices for subyearlings remained steady.

At Lower Granite Dam, subyearling chinook indices more than doubled from an average index of 450 per day last week to 960 per day this week. Of the wild subyearling PIT-tags passing Lower Granite Dam, Snake River origin tagged fish passed in relatively small numbers this week with 1 detected in the past week compared to 1 the previous week for a total of 32% of released tags detected to date. There were 16 detections of subyearlings marked in the Clearwater River compared to 8 last week, representing 7% of total tags detected to date at Lower Granite Dam. Little Goose and Lower Monumental dams also had increases in subyearling chinook passage indices over the past week, with the index averaging 560 per day at Little Goose, and 230 per day at Lower Monumental compared to 430 and 80 last week, respectively.

At Rock Island Dam the numbers of subyearling chinook decreased, with the index averaging 20 per day this week compared to 40 last week. In the Lower Columbia, at McNary Dam, subyearling chinook indices averaged 370 per day this week compared to 1,400 per day last week. At John Day Dam the subyearling average index was 290 per day this week compared to 580 last week, while at Bonneville Dam the average index was unchanged at nearly 1,300 per day over the past two weeks.

Hatchery Releases - For the 2004 juvenile migration, about 83.3 million yearling chinook, coho, steelhead, sockeye, and subyearling chinook salmon were released from Columbia River Basin hatcheries above Bonneville Dam. Hatchery release numbers will be updated and finalized through the year; however, the numbers below represent most of the hatchery releases for the 2004 migration season.

2004 Hatchery Zone Report

Race/Species	Friday 27-August-2004			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	2,580,499	12,511,808	21,964,446	37,056,753
Spring Chinook	10,487,462	3,975,400	5,226,390	19,689,252
Summer Chinook	2,374,050	3,125,983		5,500,033
Coho	1,367,111	2,387,178	6,012,423	9,766,712
Sockeye	76,927	315,790		392,717
Summer Steelhead	9,214,209	1,184,775	449,939	10,848,923
Winter Steelhead			79,070	79,070
Total	26,100,258	23,500,934	33,732,268	83,333,460

Adult Fish Passage - During this past week, the weather changed from hot and dry conditions prior to Saturday, August 21 to rainy and cool through Thursday August 26. This much needed rain and cool air has helped reduce the water temperatures at most projects and hopefully water temperatures in the Columbia River basin will have less impact on the fish migration during the remainder of the migration.

At Bonneville Dam, counts of adult fall chinook were lagging well behind the 2003 and 10-year average until the final day of the Report week, August 26, when 5,000 adult chinook passed the project. This boosted the total count of adult chinook to 21,808. This total is 94.3% and 74.8% of the respective 2003 and 10-year average. During the last few days, the percentage of Tule fall chinook has increased from less than 10% of the Run to about 25% of the fall chinook Run. The Tule chinook are mainly bound for Spring Creek NFH and tributaries in the Bonneville Pool. The Bright fall chinook component of the Run will spread out through the Columbia and Snake rivers with the largest portion of the Run destined for the Hanford Reach of the Columbia River. Expect the fall chinook run to continue to increase for the next few weeks and remain at fairly high levels through much of September if the preseason estimate for fall chinook is accurate.

Steelhead passage at Bonneville Dam reduced from a high of near 1,900 in the count

week to less than 1,000 per day by August 26, the end of the Report period. Steelhead counts passing upstream of The Dalles Dam were about 400 per day early in the week but rose to 1,500 on the 26th; the season total is at 45,625. At Bonneville, the steelhead run totals 178,053 through August 26, and this count was about 78% and 95% of the respective 2003 and 10-year average. Steelhead passage at Lower Granite Dam increased from less than 100 per day to 300-400 per day during the final 4-days of the count week. In the Mid-Columbia River, steelhead counts at Priest Rapids Dam ranged between 40-70 per day with the total steelhead count about 6,300 for the season.

Sockeye passage is basically completed for the season with at least 78% of the sockeye run bound for the Okanogan River system and the remaining total to the Wenatchee River system. Overall, the 2004 count of adult sockeye will be highest count recorded since 1985 at Bonneville Dam. For the season, 110 sockeye were counted at Lower Granite Dam in 2004 and is one of the higher totals in recent years. These Snake River sockeye are mainly destined for several of the lakes in the upper Salmon River basin.

At Bonneville Dam, passage of adult coho is well below the norm for this time of year; however, the run is just beginning to move upstream. The total adult coho counted through August 26 was only 313.

Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/13/04	104.0	0.1	102.4	0.0	105.1	7.3	104.0	10.0	103.6	0.0	106.1	1.9	101.0	0.9
08/14/04	81.9	0.1	82.6	0.0	86.4	6.6	85.4	6.5	87.2	0.0	95.1	2.0	92.9	1.1
08/15/04	80.2	0.1	83.2	0.0	86.9	6.4	86.7	5.3	86.2	0.0	91.0	1.8	89.9	1.0
08/16/04	103.7	0.1	108.7	0.0	105.5	7.2	98.8	7.9	99.5	0.0	101.0	1.8	95.9	0.9
08/17/04	113.0	0.2	106.6	0.0	107.4	7.4	106.8	9.7	107.3	0.0	112.7	2.0	108.9	1.0
08/18/04	108.5	0.2	108.8	0.0	112.5	7.5	112.3	9.6	111.0	0.0	115.4	2.0	114.3	0.8
08/19/04	105.5	0.2	107.2	0.0	110.1	7.8	105.6	10.0	105.7	0.0	113.7	1.9	115.3	0.9
08/20/04	105.4	0.1	111.8	0.0	113.9	7.9	111.9	10.0	112.3	0.0	116.0	1.8	111.3	1.1
08/21/04	74.7	0.2	69.7	0.0	74.2	5.7	74.0	8.3	74.0	0.0	89.9	1.7	94.9	0.9
08/22/04	36.7	0.1	42.0	0.0	42.9	3.7	44.7	0.0	47.5	0.0	62.1	1.5	58.8	0.9
08/23/04	84.3	0.1	86.5	0.0	86.4	6.6	82.8	0.0	80.9	0.0	70.5	1.3	68.8	0.8
08/24/04	87.8	0.1	83.3	0.0	83.6	6.5	79.3	0.0	82.6	0.0	76.1	1.6	67.1	0.9
08/25/04	104.9	0.1	103.3	0.0	104.9	7.8	101.1	0.0	101.8	0.0	104.6	2.0	97.2	1.2
08/26/04	105.9	0.2	108.2	0.0	111.1	7.9	108.1	0.0	110.6	0.0	118.2	2.0	115.6	1.2

Daily Average Flow and Spill (in kcfs) at Snake Basin Projects

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/13/04	10.1	0.0	7.9	8.7	23.6	0.0	22.4	0.0	21.8	0.0	24.0	14.5
08/14/04	10.1	0.0	7.8	8.6	23.9	0.0	24.3	0.0	24.1	0.0	24.3	14.6
08/15/04	10.1	0.0	8.7	8.6	23.8	0.0	24.7	0.0	25.3	0.0	23.8	15.1
08/16/04	10.1	0.0	8.8	10.0	24.0	0.0	23.7	0.0	24.8	0.0	27.4	19.8
08/17/04	10.1	0.0	8.7	8.5	24.9	0.0	24.9	0.0	24.0	0.0	24.1	17.1
08/18/04	10.2	0.0	10.2	8.7	22.8	0.0	22.5	0.0	22.2	0.0	25.0	17.8
08/19/04	10.2	0.0	8.9	8.8	24.7	0.0	25.4	0.0	26.4	0.0	26.5	17.5
08/20/04	10.2	0.0	9.9	11.1	25.8	0.0	26.0	0.0	25.9	0.0	26.4	16.9
08/21/04	10.2	0.0	10.0	9.8	27.1	0.0	26.2	0.0	26.9	0.0	27.4	18.1
08/22/04	10.2	0.0	9.1	8.6	26.0	0.0	26.1	0.0	25.2	0.0	25.8	16.2
08/23/04	10.3	0.0	10.9	8.6	24.3	0.0	24.3	0.0	25.1	0.0	25.9	18.9
08/24/04	10.3	0.0	10.3	9.0	27.5	0.0	26.8	0.0	27.5	0.0	30.8	24.0
08/25/04	10.3	0.0	11.0	9.2	28.0	0.0	28.9	0.0	29.6	0.0	31.5	24.8
08/26/04	9.9	0.0	---	---	30.4	0.0	30.9	0.0	30.8	0.0	34.1	27.2

Daily Average Flow and Spill (in kcfs) at Lower Columbia Projects

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
08/13/04	126.4	0.0	126.4	37.7	127.8	49.5	152.9	90.1	0.0	51.3
08/14/04	115.3	0.0	99.2	28.9	96.4	34.4	129.8	87.3	0.0	31.1
08/15/04	100.7	0.0	100.0	30.0	101.0	38.3	128.5	84.9	0.0	32.1
08/16/04	135.7	0.0	139.3	41.6	137.3	49.0	153.6	94.8	0.2	47.2
08/17/04	126.0	0.0	125.3	38.1	124.2	50.2	151.4	96.2	0.0	43.8
08/18/04	135.6	0.0	142.0	43.2	144.0	55.6	169.5	103.4	0.0	54.7
08/19/04	148.1	0.0	139.7	41.6	136.9	54.4	164.0	101.1	0.0	51.5
08/20/04	146.4	0.0	137.2	41.0	135.8	53.7	165.2	99.1	0.0	54.7
08/21/04	137.7	0.0	136.7	41.0	139.4	55.2	164.7	100.6	0.0	52.8
08/22/04	91.6	0.0	93.4	28.1	95.1	35.6	131.2	88.8	0.0	31.1
08/23/04	102.5	0.0	106.5	30.8	104.6	37.9	130.1	87.3	0.0	31.4
08/24/04	110.9	0.0	108.0	32.5	109.7	39.6	137.1	92.1	0.3	33.4
08/25/04	102.7	0.0	106.3	31.5	109.2	42.3	138.5	90.7	0.1	36.3
08/26/04	136.9	0.0	128.4	37.9	128.5	48.3	155.4	98.5	5.4	40.3

Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
McNary Dam											
	08/19/04	Chinook + Steelhead	42	0	0	0.00%	0.00%	0	0	0	0
	08/23/04	Chinook + Steelhead	20	0	0	0.00%	0.00%	0	0	0	0
	08/26/04	Chinook + Steelhead	29	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/17/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/21/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/24/04	Chinook + Steelhead	101	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	08/19/04	Chinook + Steelhead	25	0	0	0.00%	0.00%	0	0	0	0

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#		
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High		Avg	Avg
8/13	---	---	---	0	108	109	112	24	104	105	105	24	108	109	109	24	109	109	110	23
8/14	---	---	---	0	109	109	113	24	105	105	106	24	108	109	110	24	109	109	109	23
8/15	---	---	---	0	113	115	119	24	105	106	106	21	107	109	109	24	109	109	110	23
8/16	---	---	---	0	110	110	111	24	105	106	106	24	108	109	110	24	109	109	109	23
8/17	---	---	---	0	111	112	119	24	105	106	106	24	107	108	109	24	109	109	109	23
8/18	---	---	---	0	112	115	121	24	105	105	106	24	107	108	110	24	108	109	109	23
8/19	---	---	---	0	110	110	110	24	105	105	105	24	107	108	108	24	108	108	109	23
8/20	---	---	---	0	110	110	111	24	105	105	106	24	107	108	108	24	108	109	109	23
8/21	---	---	---	0	109	110	110	24	109	111	143	20	107	108	112	24	108	109	109	23
8/22	---	---	---	0	108	109	109	24	---	---	---	0	106	107	108	24	108	108	108	23
8/23	---	---	---	0	109	111	111	24	---	---	---	0	107	109	110	24	107	108	108	23
8/24	---	---	---	0	110	110	111	24	---	---	---	0	108	109	110	24	107	107	107	18
8/25	---	---	---	0	112	115	117	24	---	---	---	0	107	108	109	24	---	---	---	0
8/26	---	---	---	0	117	117	119	24	---	---	---	0	106	106	109	24	---	---	---	0

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#		
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High		Avg	Avg
8/13	109	110	110	23	110	111	111	24	111	112	112	24	112	113	113	24	112	113	114	24
8/14	109	110	111	23	110	111	112	24	110	111	112	24	113	113	114	24	113	114	114	24
8/15	109	110	110	23	109	110	111	24	109	110	111	24	112	113	113	24	112	112	113	24
8/16	109	110	110	23	108	110	111	24	110	111	111	24	111	111	111	24	111	112	112	24
8/17	109	110	111	23	108	109	110	23	109	110	111	23	110	110	111	24	111	111	111	24
8/18	109	109	110	23	108	109	110	23	109	110	111	23	110	110	111	24	110	111	111	24
8/19	108	109	110	23	108	109	110	24	110	110	111	24	110	110	110	24	111	111	111	24
8/20	109	109	110	23	108	109	109	24	109	110	111	24	110	111	111	24	111	111	112	24
8/21	109	109	110	23	108	109	110	24	109	110	111	24	111	111	111	24	111	112	112	24
8/22	109	109	110	23	106	107	107	24	108	108	109	24	110	110	111	24	110	110	111	24
8/23	107	108	108	23	106	107	107	24	107	108	108	24	108	109	109	24	108	109	109	24
8/24	108	108	109	23	106	107	107	23	107	108	111	23	107	108	108	24	107	107	108	24
8/25	108	108	108	23	106	106	106	24	107	108	108	24	107	107	107	24	107	107	107	24
8/26	107	107	109	23	106	107	107	24	108	108	109	24	105	105	106	24	105	105	106	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#		
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High		Avg	Avg
8/13	111	112	112	24	112	112	113	24	111	113	115	23	110	110	111	23	110	110	111	23
8/14	112	112	113	24	112	113	113	24	111	112	112	23	110	110	111	23	110	110	110	23
8/15	112	112	112	24	112	112	112	24	110	111	113	23	110	110	111	23	109	109	110	23
8/16	111	111	111	24	111	111	112	24	111	112	113	23	110	110	111	23	109	110	110	23
8/17	110	110	111	24	110	111	111	24	109	110	111	23	109	109	110	23	108	108	109	23
8/18	109	110	111	24	110	110	111	24	110	111	112	23	109	109	110	23	108	108	109	23
8/19	110	111	111	24	110	111	111	24	111	112	114	23	109	110	110	23	109	110	111	23
8/20	110	111	111	24	110	111	111	24	109	109	111	23	108	109	109	23	108	108	109	13
8/21	110	110	111	24	110	111	111	24	108	109	110	23	108	108	108	23	---	---	---	0
8/22	110	110	111	24	110	111	111	24	108	108	108	23	107	108	108	23	---	---	---	0
8/23	107	108	108	24	108	108	108	24	105	106	106	23	105	105	106	23	105	105	105	11
8/24	106	107	108	24	107	107	108	24	105	105	106	23	105	105	106	23	104	104	104	23
8/25	106	106	106	24	106	106	106	24	106	106	107	23	105	106	106	23	103	103	104	23
8/26	104	105	105	24	105	105	105	24	---	---	---	0	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Lower Columbia and Snake River Sites

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clrwtr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/13	---	---	---	0	107	107	108	24	100	100	101	24	101	103	104	24	102	103	105	24
8/14	---	---	---	0	106	107	107	24	100	100	101	24	101	103	104	24	102	103	105	22
8/15	---	---	---	0	105	106	106	24	100	100	100	24	101	102	103	24	101	102	104	24
8/16	---	---	---	0	106	106	107	24	100	100	100	24	101	102	103	24	101	101	102	24
8/17	---	---	---	0	106	106	107	24	100	100	100	24	101	102	104	24	100	101	102	24
8/18	---	---	---	0	105	106	106	24	99	100	100	24	101	102	103	24	101	102	104	24
8/19	---	---	---	0	105	106	106	24	100	100	101	24	101	102	104	24	101	101	102	24
8/20	---	---	---	0	106	107	108	24	100	100	101	24	101	103	104	24	101	102	103	24
8/21	---	---	---	0	106	107	108	24	100	101	101	24	101	103	104	24	101	102	103	24
8/22	---	---	---	0	103	103	104	24	100	100	100	24	101	101	102	24	99	100	100	23
8/23	---	---	---	0	102	103	103	20	100	100	100	24	101	102	103	24	99	100	100	24
8/24	---	---	---	0	101	102	102	24	100	100	100	24	100	101	102	24	99	99	100	24
8/25	---	---	---	0	100	101	101	24	100	100	101	24	101	101	102	24	100	100	102	24
8/26	---	---	---	0	101	102	102	24	99	99	100	24	100	100	101	24	100	101	101	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/13	103	105	106	24	108	109	109	24	102	102	102	24	109	110	112	24	100	100	100	24
8/14	103	105	107	24	107	108	108	24	102	102	103	24	105	108	109	24	100	101	101	24
8/15	102	103	105	24	106	107	107	24	101	102	102	24	103	105	106	24	100	101	101	24
8/16	102	103	104	24	106	106	106	24	101	102	102	24	104	105	105	24	99	100	101	24
8/17	102	104	105	24	104	105	105	24	101	101	102	24	102	102	104	24	99	99	100	24
8/18	103	105	106	24	104	105	105	24	101	101	102	24	101	102	103	24	99	100	101	24
8/19	102	104	105	24	105	106	107	24	101	101	101	24	104	105	106	24	100	101	102	24
8/20	103	104	106	24	105	105	106	24	101	101	102	24	105	105	105	24	100	100	100	24
8/21	103	105	106	24	104	105	105	24	101	101	102	24	102	102	103	24	100	101	101	24
8/22	101	102	102	24	103	103	104	24	101	101	102	24	100	101	101	24	100	100	101	24
8/23	101	103	104	24	102	102	102	24	101	101	102	24	100	100	100	24	100	100	100	24
8/24	101	101	102	24	102	102	102	24	101	101	102	24	100	100	100	24	100	100	101	24
8/25	101	102	103	24	101	102	102	24	101	101	101	24	100	100	100	24	99	100	100	24
8/26	100	101	102	24	100	101	101	24	99	100	100	24	98	98	99	24	98	98	99	24

Total Dissolved Gas Saturation Data at Snake and Lower Columbia River Sites

Date	<u>Lower Mon.</u>			<u>L. Mon. Tlwr</u>			<u>Ice Harbor</u>			<u>Ice Harbor Tlwr</u>			<u>McNary-Oregon</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/13	105	107	107	24	100	100	101	24	103	105	108	24	110	112	114	24	111	113	115	24
8/14	104	107	108	24	100	100	101	24	101	103	106	24	111	112	113	24	111	112	113	24
8/15	100	101	102	24	99	100	100	24	100	101	102	24	110	111	112	24	108	109	112	24
8/16	102	102	103	24	99	100	101	24	101	102	103	24	111	114	114	24	110	113	116	24
8/17	100	101	102	24	99	99	101	24	100	101	102	24	111	112	114	24	109	111	113	24
8/18	102	104	105	24	100	100	103	24	102	102	103	24	112	113	114	24	110	112	114	24
8/19	108	109	110	24	100	101	102	24	102	103	104	24	111	111	112	24	109	112	115	24
8/20	105	107	108	24	100	100	101	24	101	102	103	24	111	113	114	24	109	111	113	24
8/21	101	101	103	24	100	100	101	24	100	101	101	24	111	113	114	24	108	109	110	24
8/22	101	101	101	24	100	100	101	24	100	100	101	24	110	111	114	24	105	105	106	24
8/23	100	101	101	24	101	102	111	24	100	100	101	24	111	112	114	22	103	103	104	24
8/24	100	100	101	24	100	100	102	24	101	101	101	24	112	113	114	24	103	103	103	24
8/25	100	100	100	24	100	100	103	24	100	100	101	24	112	113	114	24	102	102	102	24
8/26	98	99	99	24	98	99	99	24	98	98	99	24	112	114	115	23	100	101	101	24

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>				<u>McNary Tlwr</u>				<u>John Day</u>				<u>John Day Tlwr</u>				<u>The Dalles</u>			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
8/13	110	112	115	24	107	108	108	24	105	105	107	23	114	115	115	24	107	108	108	23
8/14	109	110	112	24	107	108	108	24	105	106	107	23	113	114	115	24	107	107	107	23
8/15	108	108	109	24	107	107	107	24	103	104	105	23	112	114	114	24	105	105	106	23
8/16	108	109	110	24	107	107	108	24	103	103	104	23	113	115	116	24	105	105	106	23
8/17	108	109	111	24	107	107	107	24	103	103	103	23	113	114	115	23	104	104	105	22
8/18	108	109	112	24	107	107	108	24	103	103	104	23	114	116	118	24	104	105	105	23
8/19	110	112	113	24	107	108	108	24	103	104	104	23	114	115	115	24	107	107	107	23
8/20	107	108	109	24	107	108	109	24	104	104	104	23	114	114	115	24	106	106	107	23
8/21	107	108	109	24	108	109	109	24	104	104	104	23	114	114	115	24	105	105	106	23
8/22	106	107	107	24	108	109	110	24	103	103	104	23	112	113	114	24	105	105	106	23
8/23	104	104	105	24	107	108	108	24	102	102	102	23	113	114	115	24	104	104	104	23
8/24	103	103	103	24	107	108	110	24	102	102	102	23	113	114	115	24	104	104	105	23
8/25	102	102	103	24	108	109	109	24	101	102	102	23	113	114	114	24	104	105	105	23
8/26	100	100	101	24	108	108	109	24	100	100	100	23	113	114	115	24	103	103	104	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>				<u>Bonneville</u>				<u>Warrendale</u>				<u>CamasWashugal</u>			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
8/13	113	114	114	24	109	109	109	23	115	115	116	23	112	113	114	24
8/14	113	113	114	24	107	107	108	23	116	116	117	23	112	113	114	24
8/15	112	113	113	24	105	106	106	23	114	114	115	23	112	113	114	24
8/16	111	112	112	24	104	105	105	23	114	114	114	23	112	113	114	24
8/17	111	112	112	22	103	103	103	23	114	115	117	23	111	112	113	24
8/18	112	112	112	24	103	103	104	23	114	115	116	23	110	112	113	24
8/19	113	113	114	24	104	105	105	23	115	116	117	23	111	113	114	24
8/20	113	113	113	24	105	105	105	23	114	115	116	23	110	112	113	24
8/21	112	113	113	24	104	105	105	23	114	115	116	23	110	112	113	24
8/22	111	112	112	24	104	105	105	23	115	116	117	23	108	110	111	24
8/23	111	111	112	24	104	104	104	23	114	115	115	23	110	111	112	24
8/24	110	111	112	24	104	104	105	23	114	114	115	23	110	110	112	24
8/25	112	112	113	24	103	103	103	23	113	113	115	12	107	108	109	24
8/26	111	112	112	24	103	103	103	23	113	113	114	13	107	108	110	24

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK												
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/13/2004 *	---	---	---	---	---	0	30	3	0	8	0	0
08/14/2004	---	---	---	---	---	0	32	3	0	0	0	0
08/15/2004	---	---	---	---	---	0	4	0	0	0	7	0
08/16/2004	---	---	---	---	---	0	7	0	0	0	0	0
08/17/2004 *	---	---	---	---	---	0	11	2	0	8	7	0
08/18/2004 *	---	---	---	---	---	0	15	2	0	0	0	0
08/19/2004 *	---	---	---	---	---	4	21	0	0	0	0	0
08/20/2004 *	---	---	---	---	---	0	4	0	0	0	0	0
08/21/2004 *	---	---	---	---	---	0	1	2	0	0	0	0
08/22/2004	---	---	---	---	---	0	0	1	0	0	0	0
08/23/2004	---	---	---	---	---	0	1	3	0	0	0	0
08/24/2004 *	---	---	---	---	---	0	7	3	0	0	0	0
08/25/2004 *	---	---	---	---	---	0	16	3	0	4	0	0
08/26/2004	---	---	---	---	---	0	14	2	0	0	0	0
<hr/>												
Total:	0	0	0	0	0	4	163	24	0	20	14	0
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	0	12	2	0	1	1	0
YTD	835	29,063	66,832	9,904	4,053	5,175,952	2,658,574	913,827	12,574	1,069,752	1,005,416	1,466,443

COMBINED SUBYEARLING CHINOOK												
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/13/2004 *	---	---	---	---	---	340	500	90	68	2,796	497	2,448
08/14/2004	---	---	---	---	---	236	390	78	43	2,088	308	896
08/15/2004	---	---	---	---	---	252	280	36	37	1,120	350	1,308
08/16/2004	---	---	---	---	---	692	217	63	25	912	344	795
08/17/2004 *	---	---	---	---	---	584	332	50	20	943	1,029	954
08/18/2004 *	---	---	---	---	---	500	513	184	35	1,160	834	1,070
08/19/2004 *	---	---	---	---	---	588	796	193	40	680	676	1,390
08/20/2004 *	---	---	---	---	---	612	540	190	29	514	457	1,372
08/21/2004 *	---	---	---	---	---	788	359	144	33	616	351	1,636
08/22/2004	---	---	---	---	---	1,140	283	145	17	384	459	718
08/23/2004	---	---	---	---	---	1,364	211	241	5	385	284	967
08/24/2004 *	---	---	---	---	---	848	687	269	15	276	199	535
08/25/2004 *	---	---	---	---	---	852	1,049	224	18	168	115	2,120
08/26/2004	---	---	---	---	---	1,108	782	376	30	232	149	1,610
<hr/>												
Total:	0	0	0	0	0	9,904	6,939	2,283	415	12,274	6,052	17,819
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	707	496	163	30	877	432	1,273
YTD	1,579	0	29	80	935	1,012,403	478,378	188,829	25,788	8,410,493	1,719,932	4,737,546

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>
 this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

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NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

Fall (post SMP season) trapping at the Imnaha River Fish Trap (IMN) is funded by the Lower Snake River Compensation Program (LSRCP)

Two-Week Summary of Passage Indices

COMBINED COHO												
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/13/2004 *	---	---	---	---	---	8	14	0	1	0	0	0
08/14/2004	---	---	---	---	---	0	36	3	0	0	0	0
08/15/2004	---	---	---	---	---	0	10	0	0	0	0	0
08/16/2004	---	---	---	---	---	12	25	0	2	0	0	0
08/17/2004 *	---	---	---	---	---	4	16	0	0	0	0	0
08/18/2004 *	---	---	---	---	---	0	27	1	0	0	0	0
08/19/2004 *	---	---	---	---	---	0	24	0	0	0	0	0
08/20/2004 *	---	---	---	---	---	0	10	1	1	0	0	0
08/21/2004 *	---	---	---	---	---	0	10	1	1	0	0	0
08/22/2004	---	---	---	---	---	0	8	1	0	0	0	0
08/23/2004	---	---	---	---	---	0	6	1	0	0	0	0
08/24/2004 *	---	---	---	---	---	0	16	0	0	0	0	0
08/25/2004 *	---	---	---	---	---	0	26	0	0	0	0	0
08/26/2004	---	---	---	---	---	0	16	0	0	0	0	0

Total:	0	0	0	0	0	24	244	8	5	0	0	0
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	2	17	1	0	0	0	0
YTD	0	0	0	0	45	259,465	127,906	15,929	28,668	90,681	175,311	938,019

COMBINED STEELHEAD												
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/13/2004 *	---	---	---	---	---	52	79	12	0	0	0	0
08/14/2004	---	---	---	---	---	48	108	9	2	0	0	0
08/15/2004	---	---	---	---	---	76	70	3	0	0	14	0
08/16/2004	---	---	---	---	---	84	22	3	0	0	7	0
08/17/2004 *	---	---	---	---	---	48	55	11	1	0	0	0
08/18/2004 *	---	---	---	---	---	48	87	23	0	0	7	0
08/19/2004 *	---	---	---	---	---	32	54	6	1	0	0	0
08/20/2004 *	---	---	---	---	---	68	17	11	0	0	0	0
08/21/2004 *	---	---	---	---	---	28	13	7	1	0	0	0
08/22/2004	---	---	---	---	---	20	18	8	0	0	0	0
08/23/2004	---	---	---	---	---	28	16	4	0	0	0	0
08/24/2004 *	---	---	---	---	---	44	8	3	1	0	0	15
08/25/2004 *	---	---	---	---	---	12	11	1	3	0	0	15
08/26/2004	---	---	---	---	---	68	8	2	1	0	0	0

Total:	0	0	0	0	0	656	566	103	10	0	28	30
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	47	40	7	1	0	2	2
YTD	195	2,106	36,387	1,857	8,418	5,828,149	1,917,649	343,339	10,730	124,610	257,267	155,700

* See sampling comments

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/13/2004 *	---	---	---	---	---	0	2	0	1	8	0	0
08/14/2004	---	---	---	---	---	0	1	0	0	8	0	0
08/15/2004	---	---	---	---	---	0	0	0	0	0	0	0
08/16/2004	---	---	---	---	---	0	0	3	0	0	0	0
08/17/2004 *	---	---	---	---	---	0	0	0	0	0	0	0
08/18/2004 *	---	---	---	---	---	0	1	0	0	0	0	0
08/19/2004 *	---	---	---	---	---	0	4	0	0	0	0	0
08/20/2004 *	---	---	---	---	---	0	1	0	0	0	0	0
08/21/2004 *	---	---	---	---	---	0	1	0	0	0	0	0
08/22/2004	---	---	---	---	---	0	1	0	0	0	0	0
08/23/2004	---	---	---	---	---	4	1	0	0	0	0	0
08/24/2004 *	---	---	---	---	---	0	3	0	0	0	0	0
08/25/2004 *	---	---	---	---	---	0	7	1	0	0	0	0
08/26/2004	---	---	---	---	---	0	0	0	0	0	0	0

Total:	0	0	0	0	0	4	22	4	1	16	0	0
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	0	2	0	0	1	0	0
YTD	6	9	0	0	25	7,581	4,745	959	7,114	308,942	235,899	189,679

* See sampling comments

<http://www.fpc.org/currentDaily/smpcomments.htm>

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's), subyearling chinook (chinook 0's), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts

IMN (Collection) = Imnaha River Trap : Collection Counts

GRN (Collection) = Grande Ronde River Trap : Collection Counts

LEW (Collection) = Snake River Trap at Lewiston : Collection Counts

ENT (Collection) = Entiat River Trap : Collection Counts

LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts

Passage Index = $\text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$

LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts

Passage Index = $\text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$

LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts

Passage Index = $\text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$

RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts

Passage Index = $\text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$

MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts

Passage Index = $\text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$

JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts

Passage Index = $\text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$

BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = $\text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$

BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = $\text{Collection Counts} / \{ \text{Powerhouse 1 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.

RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.

LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.

LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.

IMN data collected for the FPC by the Nez Perce Tribe. ENT data collected for the FPC by USFWS.

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

8/27/04 8:41 AM

08/14/04 TO 08/27/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	9,904	4	24	4	656	10,592
	Sum of NumberBarged	1,474	0	19	0	256	1,749
	Sum of NumberBypassed	32	0	0	0	0	32
	Sum of Numbertrucked	8,231	4	4	2	388	8,629
	Sum of TotalProjectMortalities	167	0	1	2	12	182
LGS	Sum of NumberCollected	6,939	163	244	22	566	7,934
	Sum of NumberBarged	1,366	71	82	3	278	1,800
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	5,491	88	158	19	281	6,037
	Sum of TotalProjectMortalities	82	4	4	0	7	97
LMN	Sum of NumberCollected	2,283	24	8	4	103	2,422
	Sum of NumberBarged	258	2	3	3	27	293
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	1,817	17	5	1	76	1,916
	Sum of TotalProjectMortalities	208	5	0	0	0	213
MCN	Sum of NumberCollected	12,274	20		16		12,310
	Sum of NumberBarged	10,005	11		16		10,032
	Sum of NumberBypassed	0	0		0		0
	Sum of Numbertrucked	4,287	3		0		4,290
	Sum of TotalProjectMortalities	354	6		0		360
Total Sum of NumberCollected		31,400	211	276	46	1,325	33,258
Total Sum of NumberBarged		13,103	84	104	22	561	13,874
Total Sum of NumberBypassed		32	0	0	0	0	32
Total Sum of Numbertrucked		19,826	112	167	22	745	20,872
Total Sum of TotalProjectMortalities		811	15	5	2	19	852

YTD Transportation Summary

Source: Fish Passage Center

Updated:

8/27/04 8:41 AM

TO: 08/27/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	982,177	4,846,429	252,846	7,270	5,676,982	11,765,704
	Sum of NumberBarged	922,264	4,627,911	238,962	6,745	5,368,247	11,164,129
	Sum of NumberBypassed	46,411	151,332	13,352	285	289,607	500,987
	Sum of NumberTrucked	8,360	43,995	224	183	15,884	68,646
	Sum of TotalProjectMortalities	5,142	23,191	308	57	3,241	31,939
LGS	Sum of NumberCollected	478,111	2,573,048	124,649	4,693	1,871,553	5,052,054
	Sum of NumberBarged	471,597	2,569,307	124,333	4,667	1,867,841	5,037,745
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	5,491	2,184	158	21	1,614	9,468
	Sum of TotalProjectMortalities	1,020	1,516	61	5	2,094	4,696
LMN	Sum of NumberCollected	180,866	843,360	14,894	905	288,183	1,328,208
	Sum of NumberBarged	171,441	834,167	14,882	903	284,666	1,306,059
	Sum of NumberBypassed	6,666	6,333	3	1	2,141	15,144
	Sum of NumberTrucked	1,827	1,369	5	1	680	3,882
	Sum of TotalProjectMortalities	932	1,491	4	0	696	3,123
MCN	Sum of NumberCollected	7,672,840	658,048	56,924	190,590	76,314	8,654,716
	Sum of NumberBarged	6,549,868	8,073	5,009	10,355	1,384	6,574,689
	Sum of NumberBypassed	1,044,727	646,944	51,742	179,173	74,612	1,997,198
	Sum of NumberTrucked	4,287	3	0	0	0	4,290
	Sum of TotalProjectMortalities	69,058	2,921	173	1,062	318	73,532
Total Sum of NumberCollected		9,313,994	8,920,885	449,313	203,458	7,913,032	26,800,682
Total Sum of NumberBarged		8,115,170	8,039,458	383,186	22,670	7,522,138	24,082,622
Total Sum of NumberBypassed		1,097,804	804,609	65,097	179,459	366,360	2,513,329
Total Sum of NumberTrucked		19,965	47,551	387	205	18,178	86,286
Total Sum of TotalProjectMortalities		76,152	29,119	546	1,124	6,349	113,290

Cumulative Adult Passage at Mainstem Dams Through: 08/30

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	170,152	8,885	192,010	14,258	130,296	7,371	92,143	12,889	114,808	13,358	47,301	6,386	21,808	2,316	23,133	2,630	29,161	2,718
TDA	130,240	7,717	131,207	11,522	87,249	5,199	79,495	8,430	101,490	10,441	40,826	4,723	8,234	1,400	12,464	2,282	13,753	1,565
JDA	112,153	6,367	101,436	10,206	72,403	4,083	72,547	10,542	95,542	10,073	38,101	4,222	4,095	1,325	7,503	1,981	7,758	1,113
MCN	107,497	7,682	95,550	11,123	66,222	4,195	65,457	8,760	93,844	11,104	38,682	4,382	2,891	716	5,716	1,494	4,801	712
IHR	76,806	4,646	78,170	8,020	44,313	2,700	12,633	2,871	20,742	4,601	9,011	1,513	230	63	561	84	309	32
LMN	71,673	3,786	70,603	7,344	42,703	2,607	10,574	2,196	18,718	3,589	8,791	1,290	202	30	351	83	211	50
LGS	62,458	3,404	69,017	7,079	41,666	2,708	9,304	2,263	14,340	3,537	7,673	1,531	128	25	326	23	152	21
LWG	70,742	4,482	70,609	8,295	40,647	2,828	8,813	2,507	16,422	4,137	7,839	1,655	80	50	142	28	81	17
PRD	13,521	1,020	18,136	656	14,413	382	67,060	5,613	82,904	3,933	33,981	1,384	1,951	301	4,665	988	2,506	305
RIS	10,917	958	16,881	753	11,256	609	62,311	4,834	81,543	6,858	31,088	4,058	983	196	2,143	555	979	271
RRH	4,365	734	4,216	450	4,023	171	41,532	8,093	63,167	6,195	22,791	2,151	585	124	1,568	404	664	201
WEL	4,615	178	4,504	198	2,563	172	31,036	1,333	43,600	1,821	16,439	1,197	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2004		2003		10-Yr Avg.		2004	2003	10-Yr Avg.	2004	2003	10-Yr Avg.	Wild 2004
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	313	28	1,584	243	1,181	149	123,282	39,280	42,656	178,053	229,201	187,414	67,450
TDA	1	0	146	24	97	17	107,461	34,173	34,663	45,625	70,141	76,163	20,382
JDA	1	6	28	0	36	0	113,485	35,413	37,902	38,312	50,174	51,544	16,311
MCN	3	6	8	3	4	0	89,685	32,037	33,490	25,917	35,881	38,691	10,269
IHR	0	0	0	0	0	0	83	37	18	17,188	23,833	19,939	4,778
LMN	0	0	0	0	0	0	77	14	24	12,459	16,690	16,816	3,687
LGS	0	0	1	0	0	0	78	22	26	8,820	12,676	11,098	2,977
LWG	0	0	0	0	0	0	110	11	22	13,034	23,058	12,501	4,493
PRD	3	2	15	6	5	0	124,939	36,539	40,817	6,307	7,402	4,750	n/a
RIS	1	0	9	0	1	0	106,044	34,760	37,832	5,424	5,072	3,600	4,425
RRH	0	0	2	0	1	0	80,744	30,318	24,410	4,500	4,009	2,388	3,516
WEL	0	0	0	0	0	0	77,333	28,965	23,946	2,322	2,263	1,443	1,675

RIS, RRH and WEL are through 8/25.

IHR is missing 7/2; LGR has duplicate data 7/14 and 7/15.

*PRD is not posting wild steelhead numbers.

These numbers were collected from the COE's Running Sums text files, except where otherwise noted.

Wild steelhead numbers are included in the total.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.

Page last updated on: 08/31/04

Run Year counts (June 1, 2004 to May 31, 2005):

Steelhead
5,416

BON counts from January 1, 2004 to March 14, 2004 (our traditional counts begin March 15):

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
156	1	1,489	238

